

## ABSTRACT

A method for low-density parity-check (LDPC) encoding of data comprises defining a first MxN  
5 parity check matrix; generating, based on the first parity check matrix, a second parity check  
matrix having an MxM triangular sub-matrix; and, mapping the data into an LDPC code word  
based on the second parity check matrix. The method is particularly useful for data  
communications applications, but may also be employed in other applications such as, for  
example, data storage.

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